## CLAIMS

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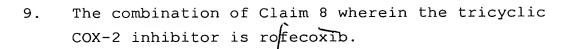
What is claimed is:

1. A therapeutic combination comprising an amount of a COX-2 inhibitor compound source and an amount of a sex steroid compound wherein the amount of a COX-2 inhibitor compound source and the amount of the sex steroid compound together comprises a dysmenorrheaeffective amount of the compounds.

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- 2. The combination of Claim 1 wherein the COX-2 inhibitor source is a COX-2 inhibitor.
- 3. The combination of Claim 2 wherein the COX-2 inhibitor is a tricyclic COX-2 inhibitor.
  - 4. The combination of Claim 3 wherein the tricyclic COX-2 inhibitor is selected from the group consisting of a pyrazole COX-2 inhibitor, a furanone COX-2 inhibitor, an isoxazole COX-2 inhibitor, a pyridine COX-2 inhibitor, and a pyridazinone COX-2 inhibitor.
- 5. The combination of Claim 4 wherein the tricyclic COX-2 inhibitor is a pyrazole COX-2 inhibitor.
  - 6. The combination of Claim 5 wherein the tricyclic COX-2 inhibitor is celecoxib.
- 7. The combination of claim 5 wherein the tricyclic COX-2 inhibitor is deracoxib.
  - 8. The combination of Claim 4 wherein the tricyclic COX-2 inhibitor is a furanone COX-2 inhibitor.



- 10. The combination of Claim 4 wherein the tricyclic COX-2 inhibitor is an isoxazole COX-2 inhibitor.
  - 11. The combination of Claim 10 wherein the tricyclic COX-2 inhibitor is valdecoxib.
- 10 12. The combination of Claim 4 wherein the tricyclic COX-2 inhibitor is a pyridine COX-2 inhibitor.
  - 13. The combination of Claim 12 wherein the tricyclic COX-2 inhibitor is 5-chloro-6'-methyl-3-[4-(methylsulfonyl)phenyl]-2,3'-bipyridine.
  - 14. The combination of Claim 4 wherein the tricyclic COX-2 inhibitor is a pyridazinone COX-2 inhibitor.
- 20 15. The combination of Claim 14 wherein the pyridazinone COX-2 inhibitor is 2-(3,4-difluorophenyl)-4-(3-hydroxy-3-methylbutoxy)-5-[4-(methylsulfonyl)phenyl]-3(2H)-pyridazinone.
- 25 16. The combination of Chaim 2 wherein the COX-2 inhibitor is a benzopyran COX-2 inhibitor.
- 17. The combination of Claim 2 wherein the COX-2 inhibitor is a methane sulfonanilide COX-2 inhibitor.
  - 18. The combination of claim 17 wherein the methane sulfonanilide COX-2 inhibitor is N-(4-nitro-2-cyclohexyloxyphenyl methanesulfonamide.

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- 19. The combination of Claim 1 wherein the COX-2 inhibitor source is a prodrug of a COX-2 inhibitor.
- 20. The combination of Claim 19 wherein the prodrug of the COX-2 inhibitor is parecoxib.
- 21. The combination of Claim 1 wherein the sex steroid compound is a progestin sex steroid.
- 10 22. The combination of Claim 1 wherein the sex steroid compound is an estrogen sex steroid.
  - 23. The combination of Claim 22 wherein the sex steroid compound further comprises a progestin sex steroid.
  - 24. The combination of Claim 23 wherein the sex steroid compound comprises an amount of an estrogen sex steroid and amount of a progestin sex steroid wherein the amount of the estrogen sex steroid and the amount of the progestin sex steroid together comprise a menstrual cycle controlling-effective amount of the compounds.
- 25. The combination of Claim 24 wherein the estrogen sex steroid is ethinyl estradiol.
  - 26. The combination of Claim 24 wherein the progestin sex steroid is selected from the group consisting of levonorgestre, norethindrone acetate, norgestimate, ethynodiol acetate, desogestrel, norgestrel and porethindrone.
  - 27. The combination of Claim 26 wherein the progestin sex steroid is levonorgestrel.

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- 28. The combination of Claim 26 wherein the progestin sex steroid is norethindrone acetate.
- 29. The combination of Claim 26 wherein the progestin sex steroid is norgestimate:
  - 30. The combination of Claim 26 wherein the progestin sex steroid is ethynodial acetate.
- 10 31. The combination of Claim 26 wherein the progestin sex steroid is desogestre.
  - 32. The combination of Claim 26 wherein the progestin sex steroid is norgestrel.
  - 33. The combination of Claim 26 wherein the progestin sex steroid is norethindrone.
- 34. The combination of Claim 1 wherein the COX-2 inhibitor compound source and the sex steroid compound are present in a single composition.
- 25. A combination therapy method for the treatment or prophylaxis of dysmenorrhea in a patient in need thereof, comprising:

  administering to the patient an amount of a COX-2 inhibitor compound source and administering to the patient an amount of a sex steroid compound wherein the amount of the COX-2 inhibitor compound source and the amount of the sex steroid compound together comprise a dysmenorrhea-effective amount of the compounds
- 36. The combination therapy method of Claim 35 wherein the COX-2 inhibitor source is a COX-2 inhibitor.

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- 37. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is celecoxib.
- 5 38. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is rofecoxib.
  - 39. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is valdecoxib.
- 40. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is deracoxib.
- 41. The combination therapy method of Claim 36 wherein

  the COX-2 inhibitor compound is 5-chloro-6'-methyl
  3-[4-(methylsulfonyl)phenyl]-2,3'-bipyridine.
- 42. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is N-(4-nitro-2-phenoxyphenyl) methanesulfonamide.
  - 43. The combination therapy method of Claim 36 wherein the COX-2 inhibitor compound is 2-(3,4-difluorophenyl)-4-(3-hydroxy 3-methylbutoxy)-5-[4-(methylsulfonyl)phenyl]-3(2H)-pyridazinone.
  - 44. The combination the apy method of Claim 35 wherein the COX-2 inhibitor source is a prodrug of a COX-2 inhibitor.
  - 45. The combination therapy method of Claim 44 wherein the prodrug of the COX-2 inhibitor is parecoxib.
- 46. The combination therapy method of Claim 35 wherein the sex steroid compound comprises an amount of an

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estrogen sex steroid and an amount of a progestin sex steroid wherein the amount of the estrogen sex steroid and the amount of the progestin sex steroid together comprise a menstrual cycle controllingeffective amount of the compounds.

- 47. The combination therapy method of Claim 46 wherein the estrogen sex steroid is ethinyl estractiol.
- 10 48. The combination therapy method of Claim 46 wherein the progestin sex steroid is selected from the group consisting of levonorgestrel, norethindrone acetate, norgestimate, ethynodiol acetate, desogestrel, norgestrel and norethindrone.
  - 49. The combination therapy method of Claim 48 wherein the progestin sex steroid is levonorgestrel.
- 50. The combination therapy method of Claim 48 wherein the progestin sex steroid is norethindrone acetate.
  - 51. The combination therapy method of Claim 48 wherein the progestin sex steroid is norgestimate.
- 25 52. The combination the tapy method of Claim 48 wherein the progestin sex steroid is ethynodial acetate.
  - 53. The combination therapy method of Claim 48 wherein the progestin sex steroid is desogestrel.
  - 54. The combination therapy method of Claim 48 wherein the progestin sex steroid is norgestrel.
- 55. The combination therapy method of Claim 48 wherein the progestin sex steroid is norethindrone.